Table showing for the month of September, &c.—Continued.										Table showing for the month of September, &c.—Continued.									
States and stations.	inch	fall of 10 nes, or re, per onth.	Rainfall of 2.50 inches, or more, in 24 hours.			Rainfall equaling or exceeding one inch per hour.				States and stations.	Rainfall of 10 inches, or more, per month.		Rainfall of 2.50 inches, or more, in 24 hours.			Rainfall equaling or exceeding one inch per hour.			
	Year.	Amt.	Year.	Day.	Amt.	Year.	Day.	Time.	Amt.		Year.	Amt.	Year.	Day.	Amt.	Year.	Day.	Time.	Amt.
Texas—Continued. Rio Grande City San Antonio Do Sour Lake Do Sour Lake Utah Salt Lake City Vernont. Brattleborough Charlotte Manchester Strafford Do Vernon Virginia Accotink Bruington Cape Ilenry Do Capeville Dale Enterprise Lynchburg Mount Solon Norfolk Do No	1878 1888 1888 1876 1877 1876 1882 1888	3-15 10-56 10-94 14-90 10-04 10-70 12-24 10-58	1882 1886 1886 1885	21-22 11 6 15-16 24 13 9 18 10 20-21 2-3 	3.09 6.20 6.10 2.70 3.10 3.94 2.51 2.50 2.57 2.50 3.50 2.60 3.42 3.10	1874	24 16	I 00	2.00	Virginia—Continued. Norfolk	1885 1882 1881 1881	13.10 12.15 7.23 11.60 10.87 10.01	1885 1877 1878	25-26 10-11 21-22 11-12 12-22 28 8-9 18-19 8-9 16-17 31 9 6 16 22-23 18 29 5	2.66 2.78 3.50 7.02 4.50 2.75 6.10 2.82 4.85 3.98 2.74 2.81 5.69 4.00 3.70	1883	20	2 15	4.50

## WINDS.

chart ii by arrows flying with the wind. Along the Atlantic were unroofed or otherwise damaged. New Jersey .- Hurffcoast south of New England, and in the Gulf states and lower and middle Mississippi valleys, northerly winds were most frequently noted; along the Saint Lawrence Valley and over the Lake region they were mostly westerly; in the Missouri Val-ley, northwest; in the Rocky Mountain regions, variable; and only about two minutes, but did considerable damage. along the Pacific coast, north to west.

## HIGH WINDS.

No velocities of fifty miles or more per hour have been reported, other than those given in the table of miscellaneous meteorological data, except at Mount Washington, N. H., 80, sw., 8th, and 86, sw., 13th.

## LOCAL STORMS.

The severe storms in the south Atlantic and east Gulf states during the first decade of the month, and the heavy gales miles an hour from the east; storm lasted from three to five along the middle Atlantic and New England coasts on the 25th and 26th, attended the passage of barometric depressions described in this REVIEW. The following reports refer to storms of a more local character:

8th. Illinois.—Quincy: a severe rain and wind storm in the evening did much damage. Houses were unroofed and trees damaged. The storm lasted about ten minutes and was unusually destructive.

10th. Virginia.—Norfolk: a destructive wind and rain storm swept over parts of Nansemond, Isle of Wight, and Southampton counties this morning, destroying trees and crops and demolishing buildings.

14th. Maryland.—Westport, Prince George Co.: this section was visited in the afternoon by a cyclonic storm about one-fourth of a mile in width which caused much damage.

14-15th. California.—San Francisco: heavy showers of rain, accompanied by thunder and lightning, prevailed.

15th. South Carolina.—Tumbling Shoals, Laurens Co.: a tornado swept over this place at 6 p. m., doing much damage to trees. Toney Creek, Anderson Co.: about 5 p. m. a tornado passed across Saluda River one mile south of this place, unroofing houses.

16th. District of Columbia.—Washington City: the thunder-storm which occurred in the afternoon was accompanied by from the southwest. The stones were about the size of chesthigh wind and excessive rain; 1.23 inches of rain fell in twenty- nuts; the storm lasted one hour.

The prevailing winds for September, 1888, are shown on five minutes; several houses in the southern portion of the city ville, Gloucester Co.: a storm visited this place between 7 and 8 p. m., doing much damage to houses, crops, and stock.

17th. Delaware.—Viola, Kent Co.: a destructive storm passed over this county from southwest to northeast; it lasted

20th. Kansas-Dodge City: occasional flashes of lightning were observed at sunset; at 8.05 p. m. the wind backed from northeast to northwest and for twelve minutes blew at the rate of forty miles an hour; hail of unusual size fell from 8.15 to 8.40 p. m., causing much damage; the storm ended at 9.10 p. m. Virginia.—Lynchburg: a storm passed over Orange

county, destroying houses, trees, and stock.

21st. South Carolina.—Tabernacle, Marion Co.: a tornado passed over this place at 6.30 p. m., velocity of wind sixty five minutes; width of track about three hundred yards. Texas. Mammoth Springs, Fulton Co.: a tornado passed over this place to-day; seven houses were wrecked; trees and crops badly damaged, and several people were injured.

26th. Heavy gales and rain storms prevailed over New England, more especially along the coast, where considerable damage was done to shipping and property.

Destructive hail storms were reported as follows:

7th. Minnesota.—Saint Paul: during a thunder-storm in the afternoon hail of unusual size fell to a depth of one-half inch.

12th. New York.—Nyack: a severe hail storm occurred in the interior of Rockland county at night; hail-stones the size of walnuts fell. Pennsylvania.—Johnstown, Cambridge Co. a severe thunder and hail storm occurred in the evening; hail fell in large quantities and was very destructive to window. glass, grapes, and late vegetables; in protected places it remained on the ground twenty-four hours. Several buildings were struck by lightning. Washington, Washington Co.: 3

destructive hail storm occurred at 6 p. m.

20th. Kansas.—Dodge City: hail of unusual size fell from

8.15 to 8.40 p. m. during a thunder storm.

27th. New York.—Eden Centre: a very severe hail storm, accompanied by thunder and lightning, passed over this place